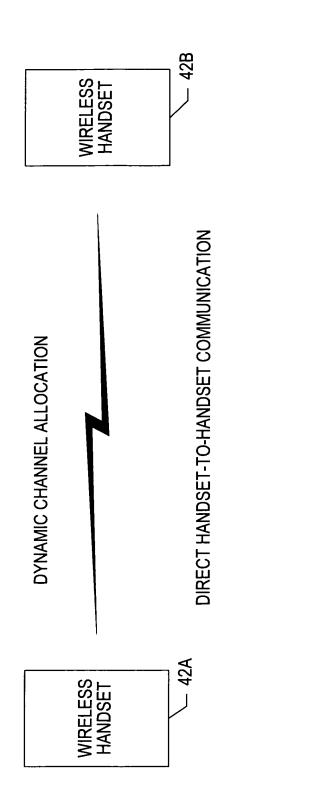


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<u>F</u>G.3

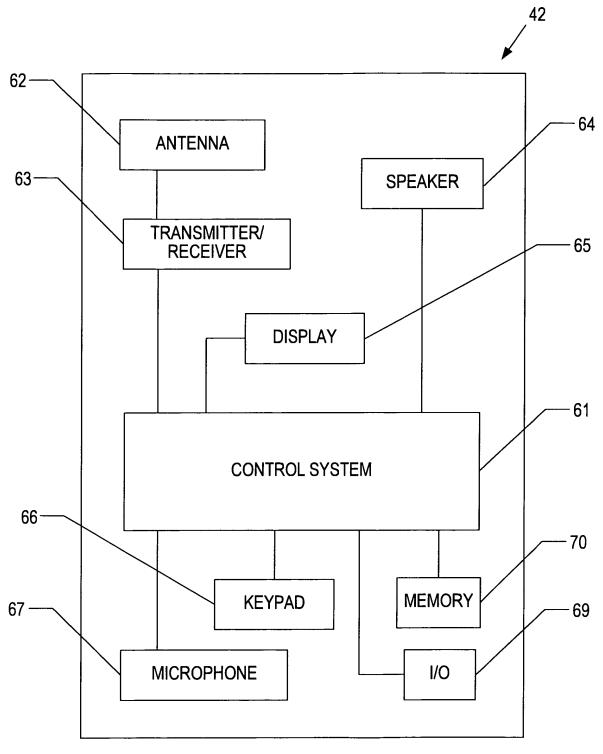


FIG. 4A

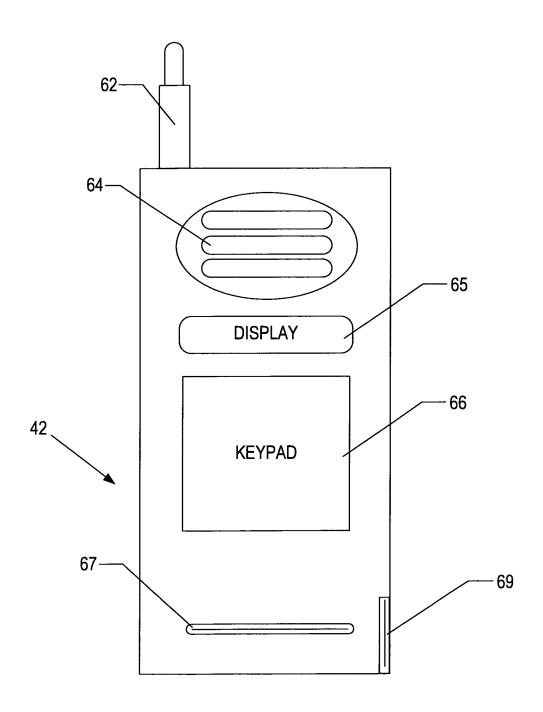
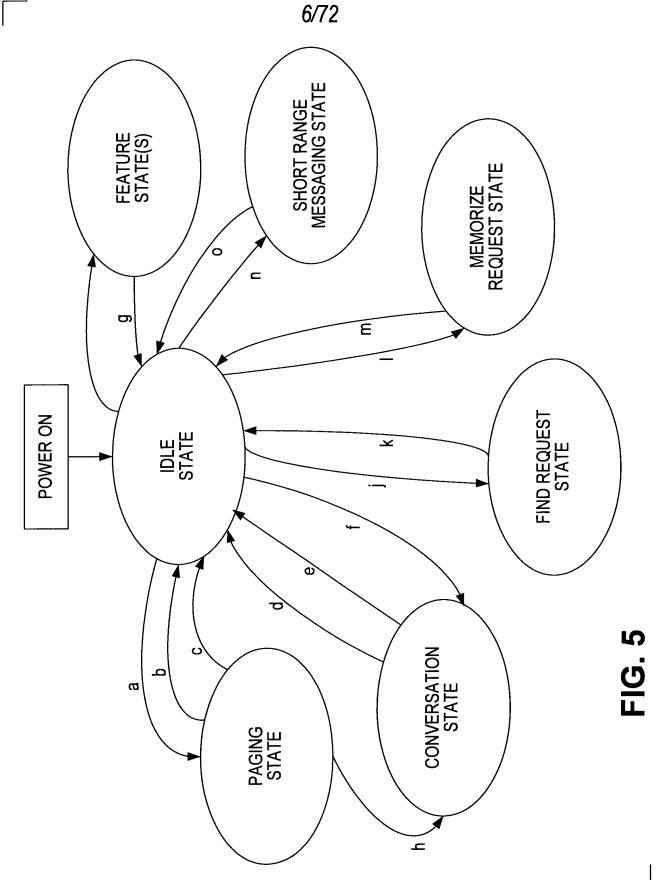
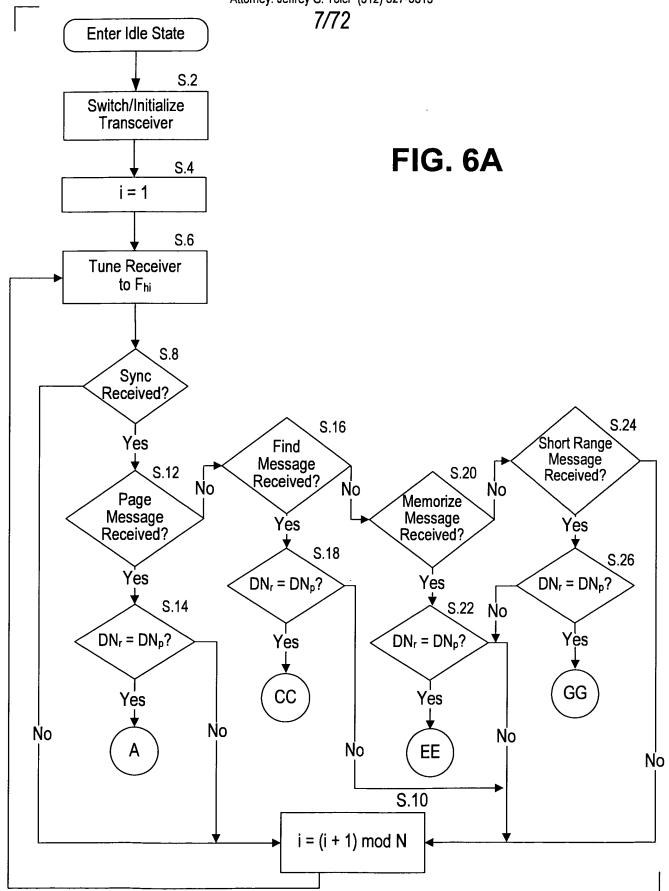


FIG. 4B

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Inventor: Daniel Wayne Mauney Attorney: Jeffrey G. Toler (512) 327-5515





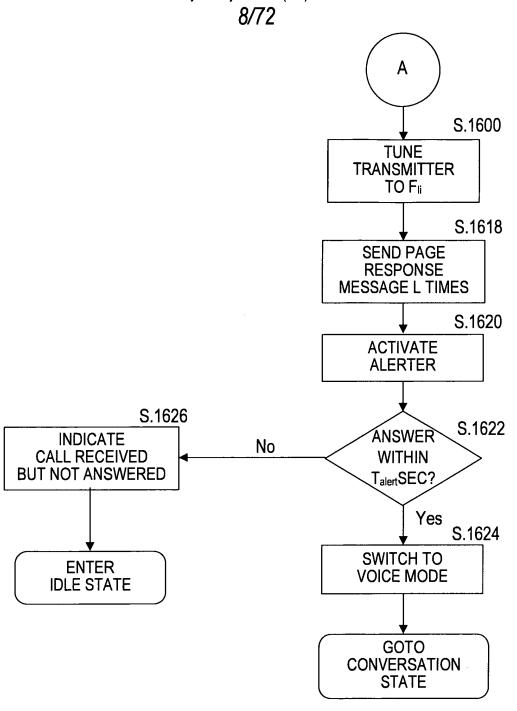


FIG. 6B

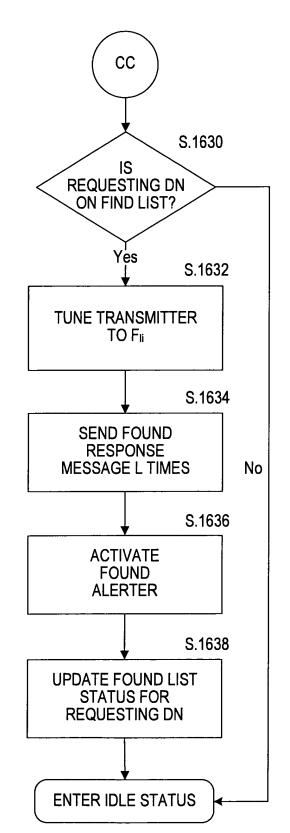


FIG. 6C

10/72 ΕE S.1640 i = 0- S.1646 S.1642 S.1644 HAS NO $i \ge i_{max}$? **USER PRESSED** NO i = i + 1THE MEMORIZE **KEY** YES YES TUNE S.1648 TRANSMITTER TO Fi SEND MEMORIZE S.1650 **RESPONSE MESSAGE L TIMES ACTIVATE** S.1652 MEMORIZE SUCCESS **ALERTER** S.1654 **UPDATE** ADDRESS BOOK **ENTER IDLE STATE**

FIG. 6D

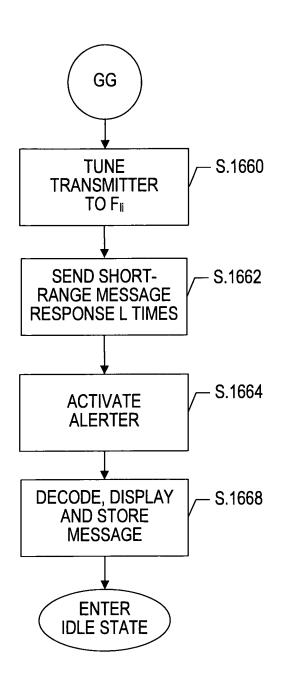
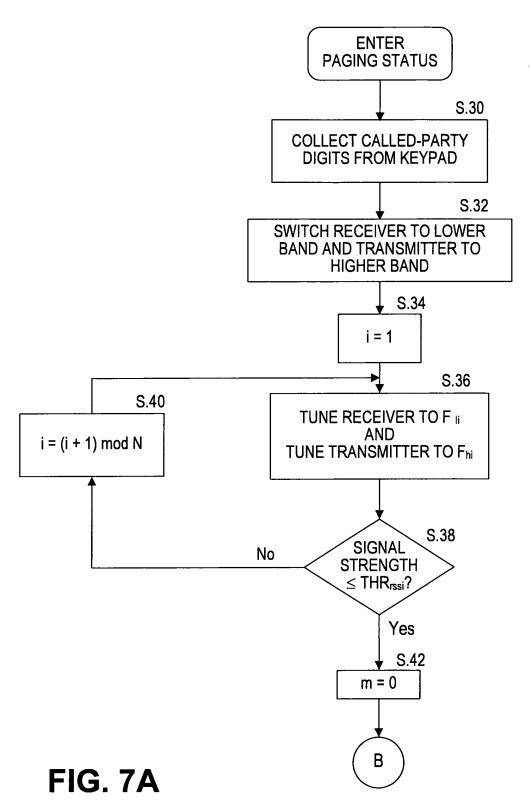
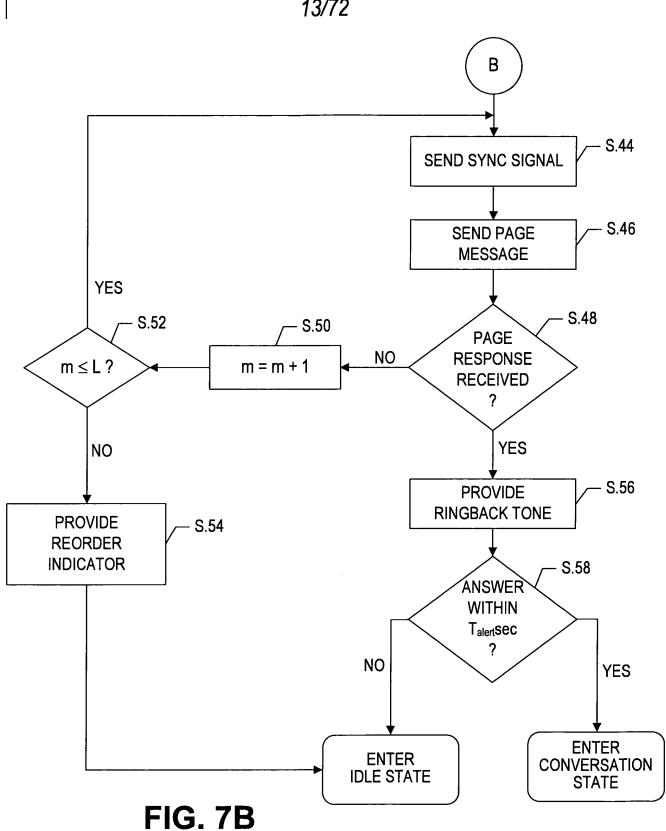


FIG. 6E



Inventor: Daniel Wayne Mauney Attorney: Jeffrey G. Toler (512) 327-5515



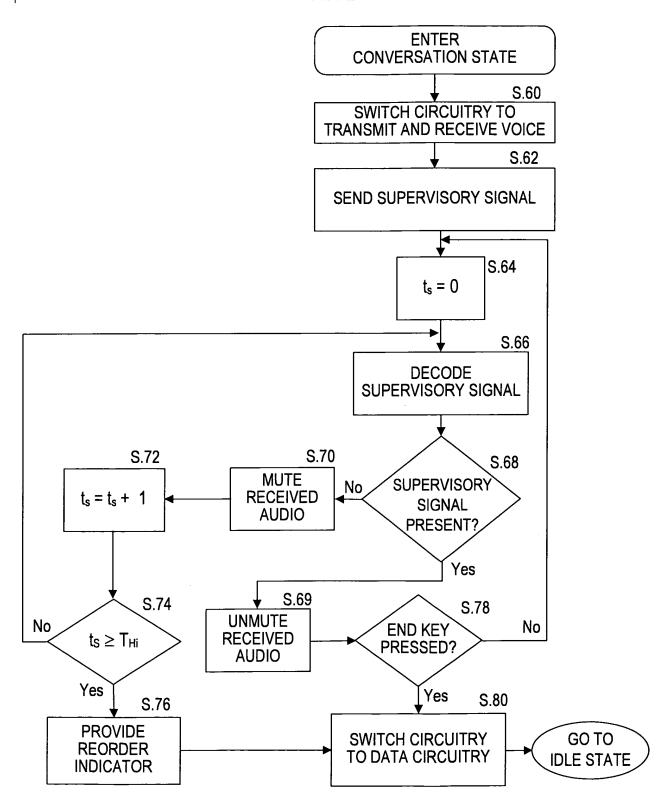


FIG. 8

Docket No.: 1033-T00142-C4
Inventor: Daniel Wayne Mauney

Attorney: Jeffrey G. Toler (512) 327-5515 15/72 USER "A" PRESSES S.90 "FIND" WITH NO **OBJECT OR HANDSET SELECTED** S.92 SET LIST_COUNT TO 1 S.94 SET WAIT CLOCK TO 0 S.96 HANDSET QUERIES ID #LIST_COUNT WITH ID "A" - S.100 S.98 **WAIT HANDSET** Ν N **CLOCK** ≥ WAIT RESPONSE TIME **RECEIVED** Υ Y S.102 SHOW ID #LIST_COUNT, NAME AND SS ON "FOUND" LIST S.104 S.106 LIST_COUNT ≥ Ν **INCREMENT END OF "FIND"** LIST_COUNT LIST S.108 Υ **DISPLAY** "FOUND" LIST FIG. 9A S.110 **END**

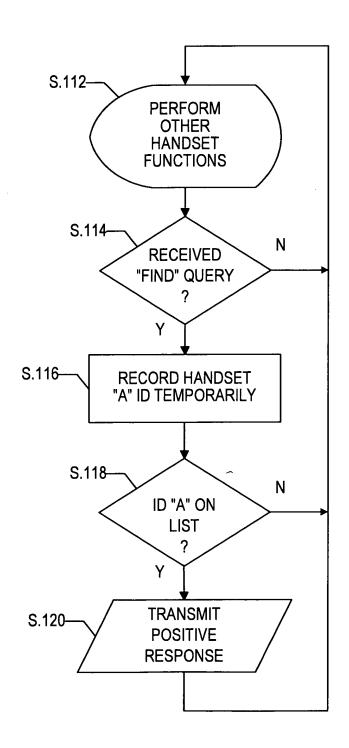
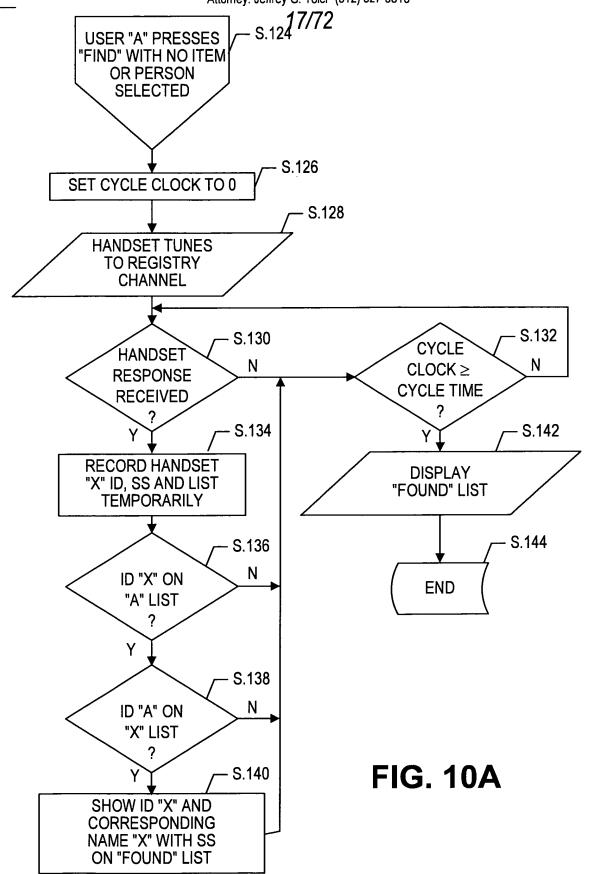


FIG. 9B



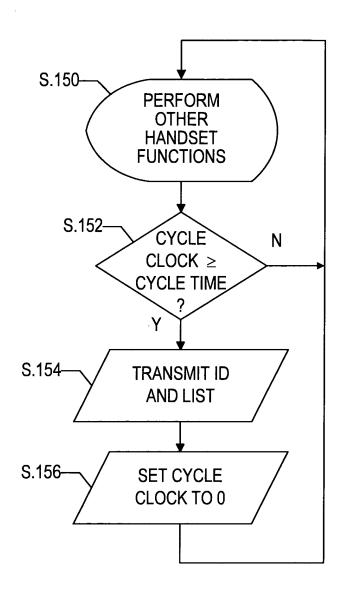
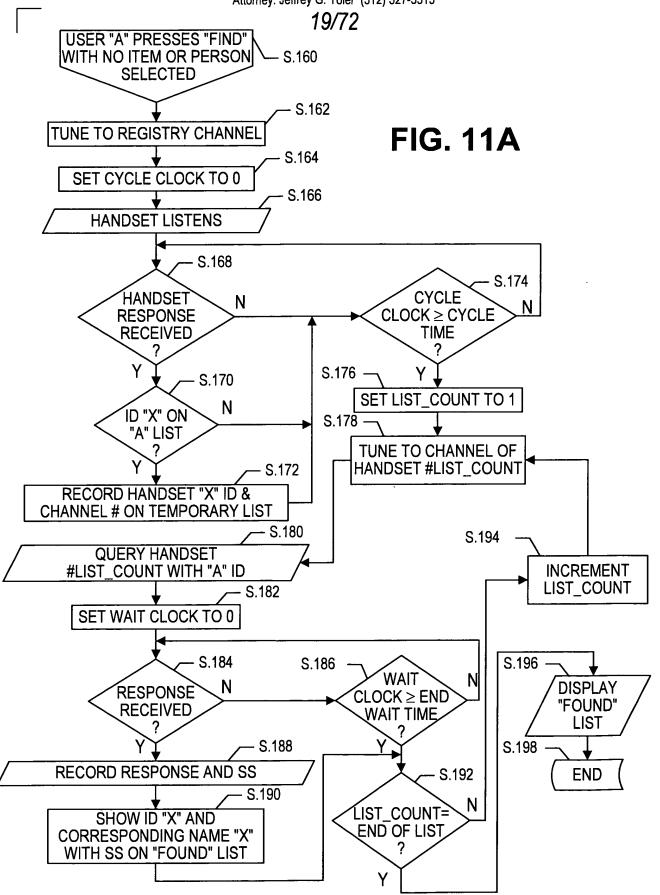


FIG. 10B



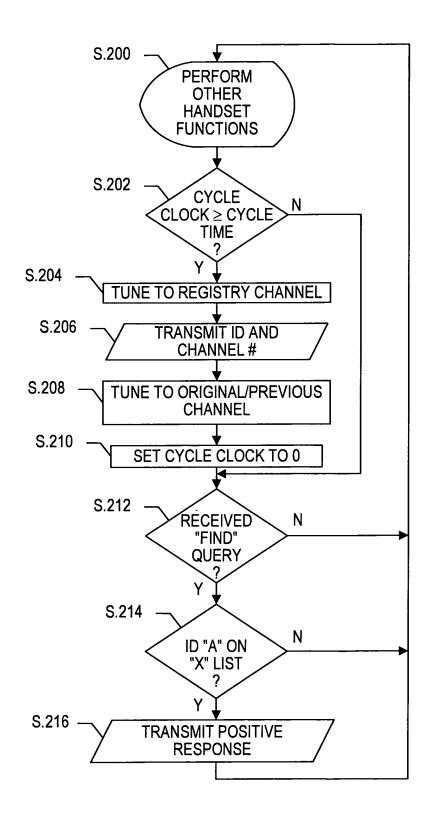


FIG. 11B

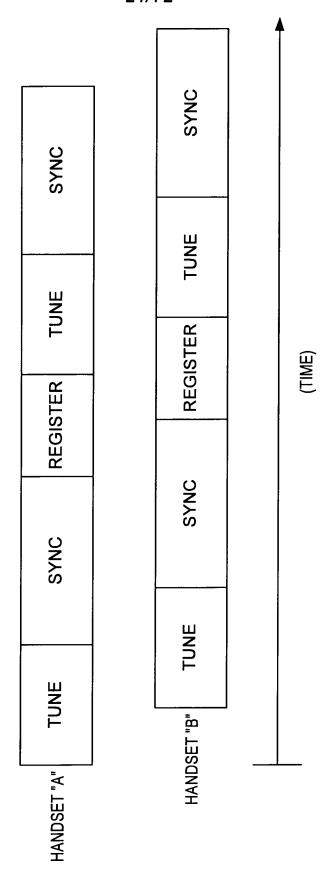
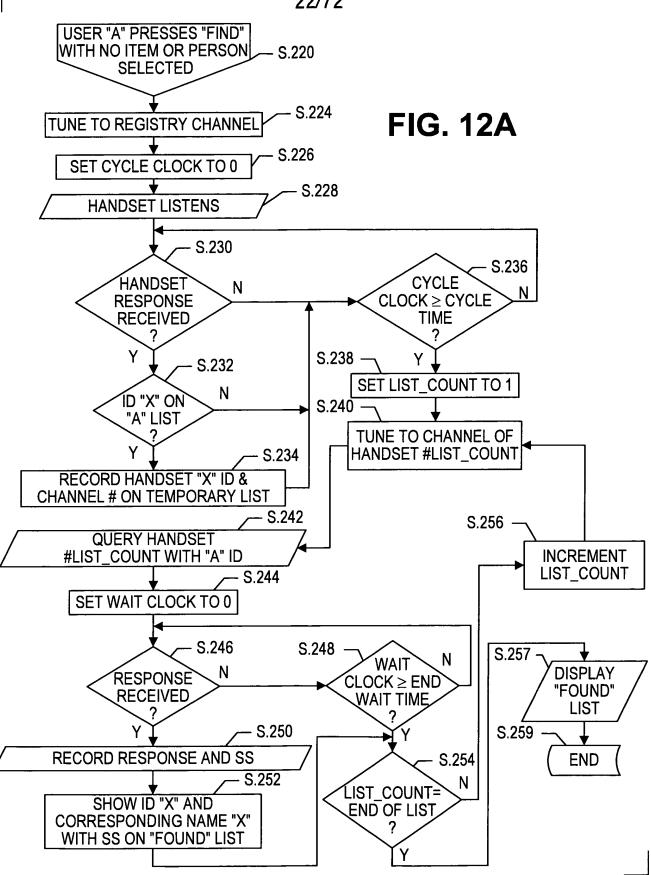
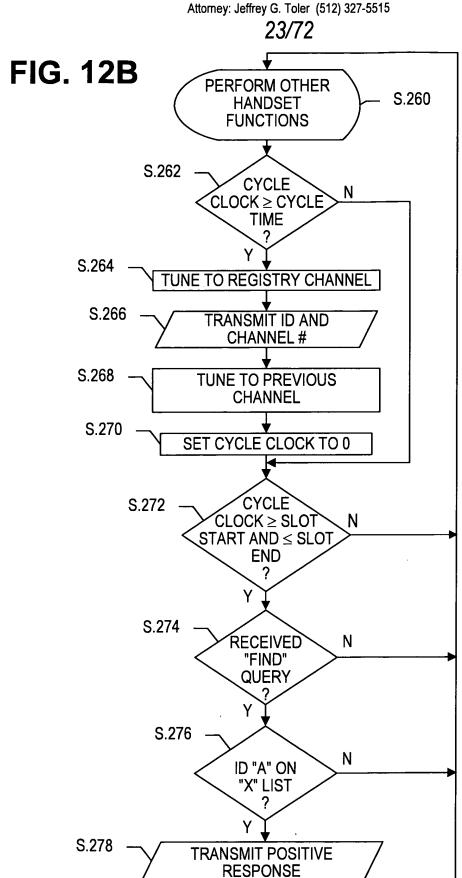


FIG. 11C



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Inventor: Daniel Wayne Mauney



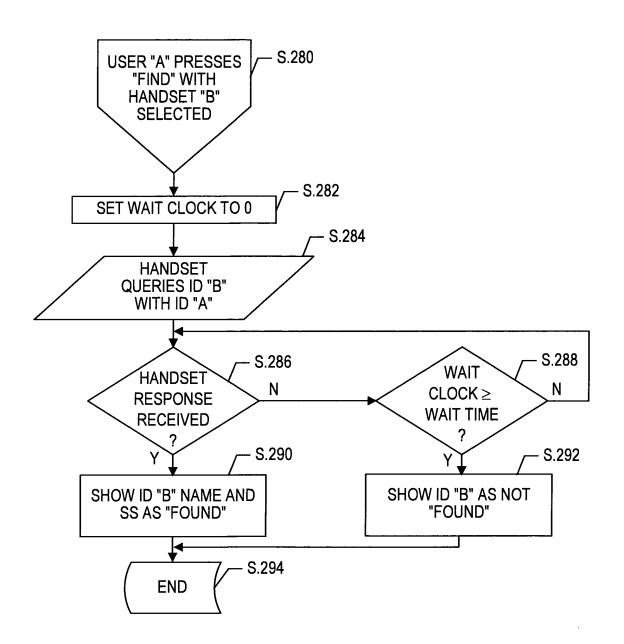


FIG. 13A

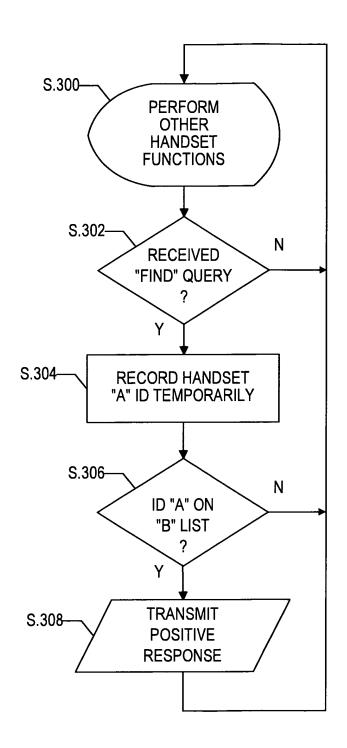
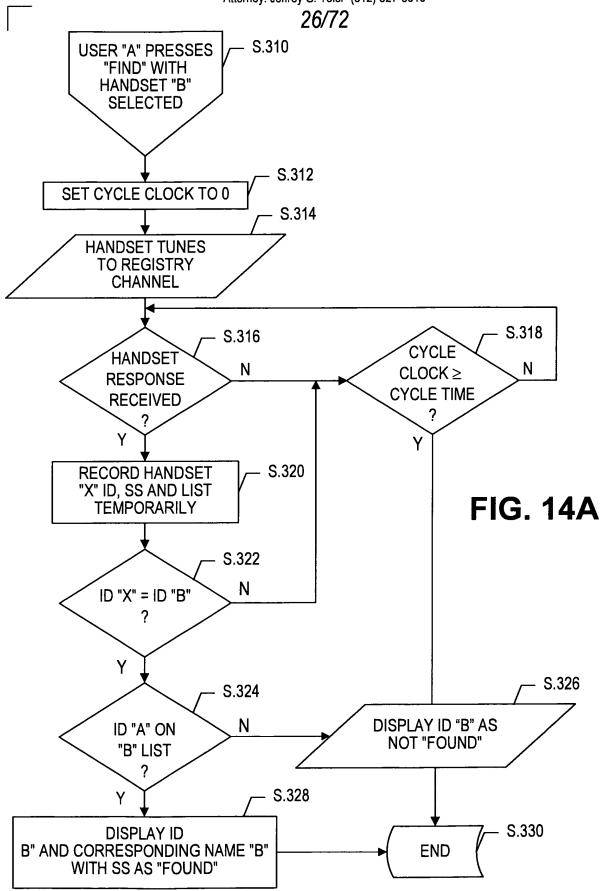


FIG. 13B

Docket No.: 1033-T00142-C4 Inventor: Daniel Wayne Mauney Attorney: Jeffrey G. Toler (512) 327-5515 26/72 - S.310 USER "A" PRESSES "FIND" WITH



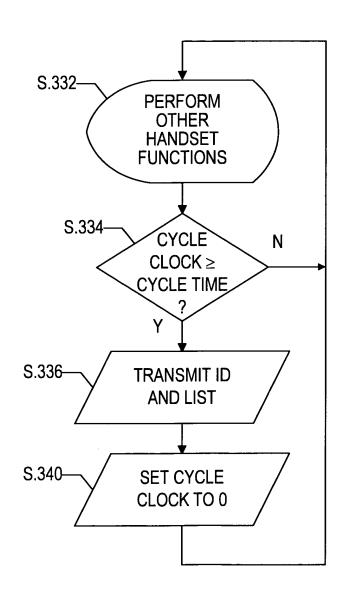
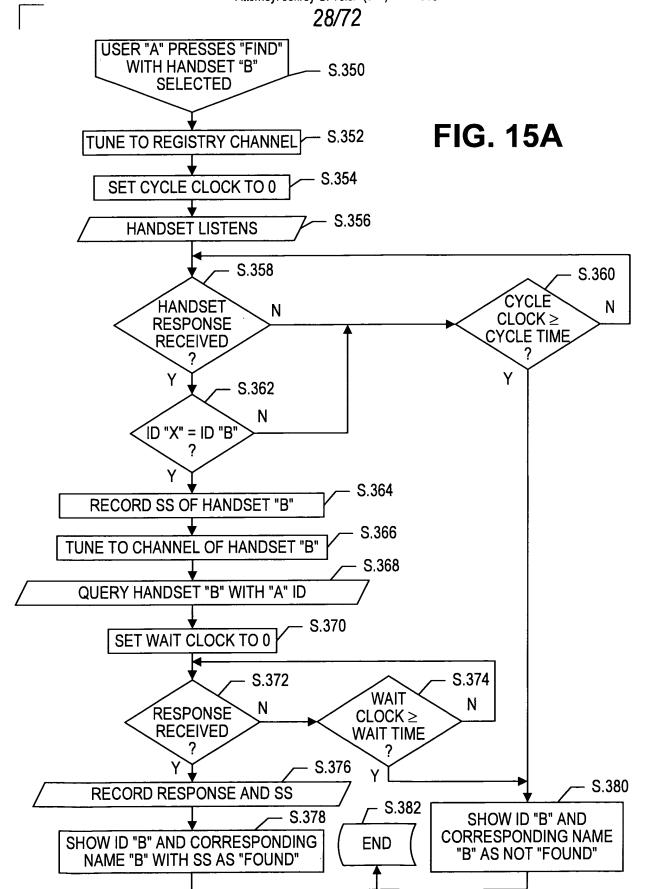
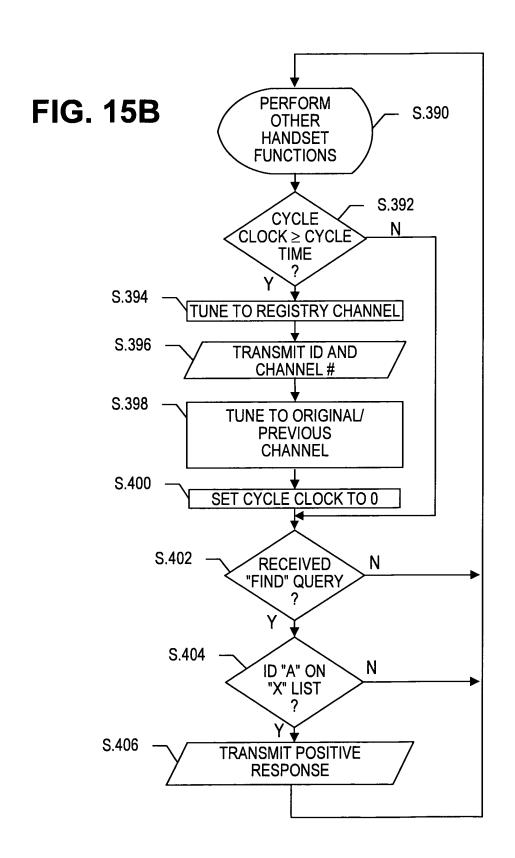
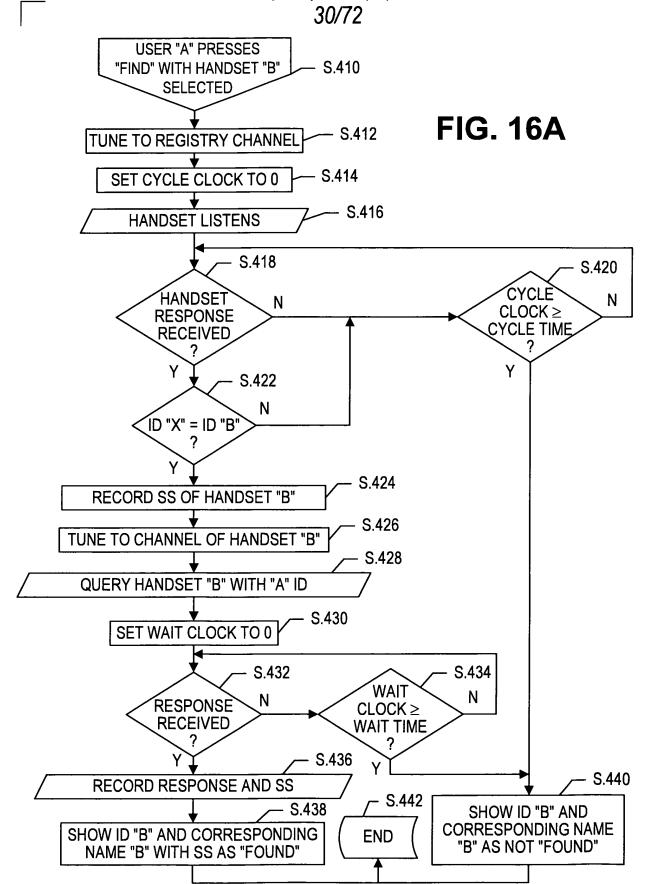


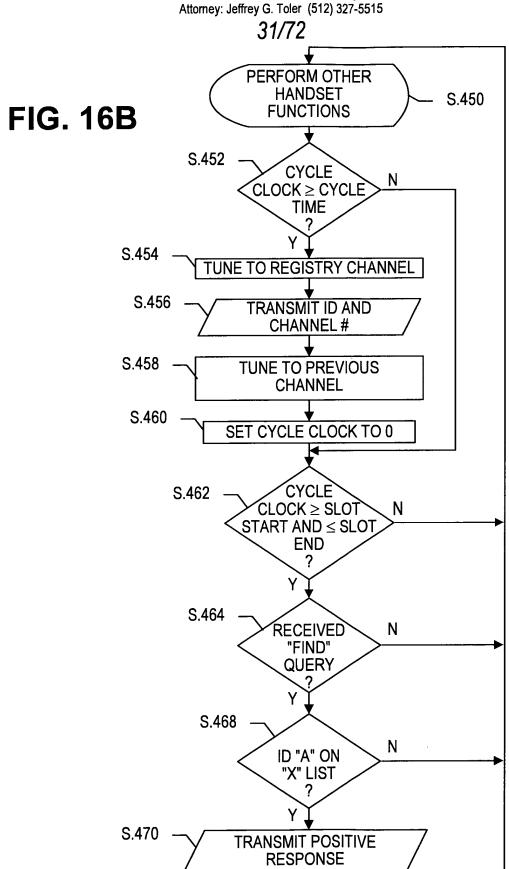
FIG. 14B







Docket No.: 1033-T00142-C4
Inventor: Daniel Wayne Mauney



Inventor: Daniel Wayne Mauney Attorney: Jeffrey G. Toler (512) 327-5515 32/72 **USER "A" PRESSES** S.500 "MEMORIZE" (WITH HANDSET OR **OBJECT "B" NEARBY**) S.502 SET WAIT CLOCK TO 0 S.504 HANDSET TUNES TO CONTROL CHANNEL, **VERY LOW POWER** S.506 HANDSET QUERIES FOR MEMORIZE CONFIRMATION WITH ID AND NAME S.510 S.508 WAIT N N **RECEIVED** CLOCK ≥ **RESPONSE WAIT TIME** Υ Υ S.512 N **USER CONFIRM** "MEMORIZE" S.514 Υ S.516 ADD ID (AND NAME) "B" TO LIST **END**

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FIG. 17A

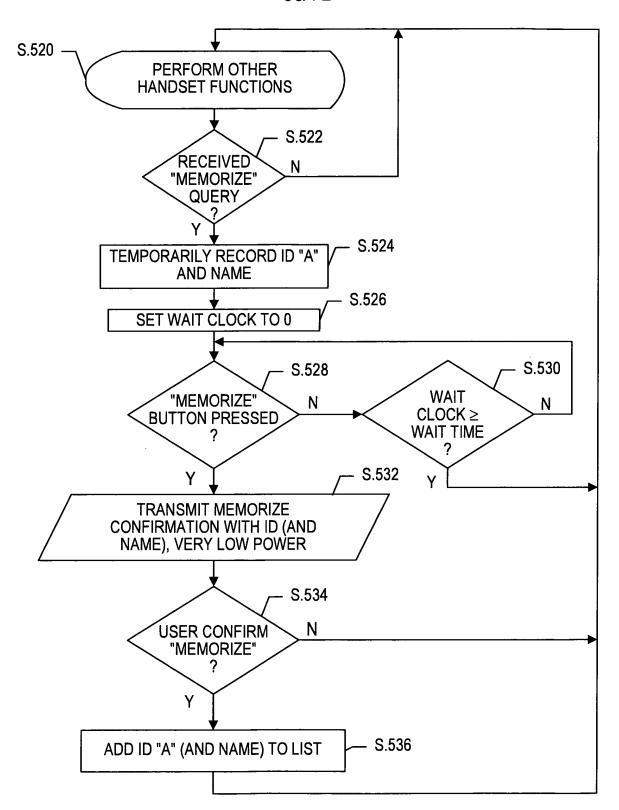
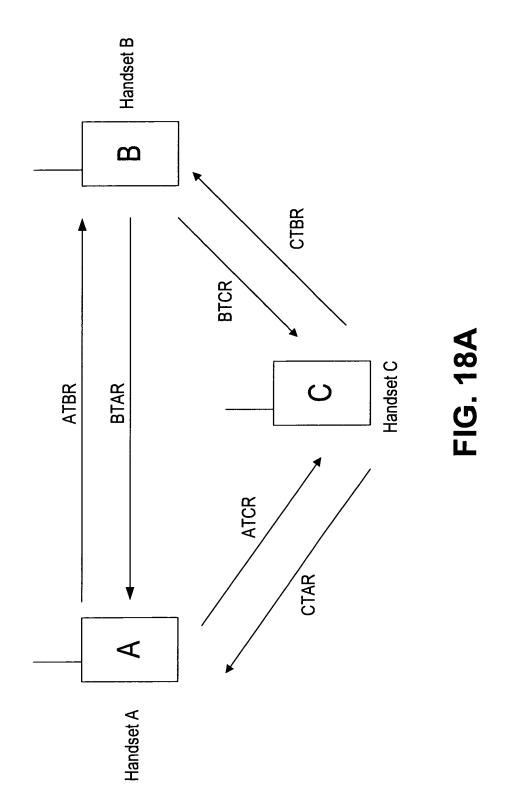


FIG. 17B



	TS1	TS2	TS3
HANDSET A			
Transmit	С	ATBR	ATCR
Receive	С	CTAR	BTAR
HANDSET B			
Transmit	С	BTCR	BTAR
Receive	С	ATBR	CTBR
HANDSET C			
Transmit	С	CTAR	CTBR
Receive	С	BTCR	ATCR
			l

FIG. 18B

	TS1	TS2	TS3
HANDSET A			
Transmit	С	ATBR	ATCR
Receive	CTAR	BTAR	С
HANDSET B	BTCR	BTAR	С
Transmit Receive	С	ATBR	CTBR
HANDSET C Transmit	CTAR	C	CTBR
Receive	BTCR	С	ATCR

FIG. 18C

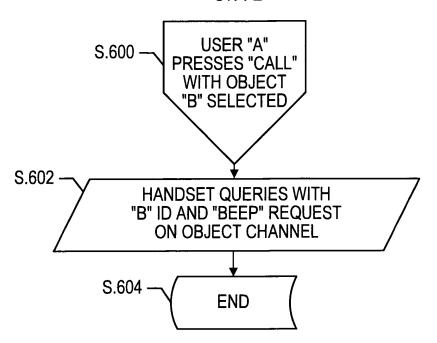


FIG. 19A

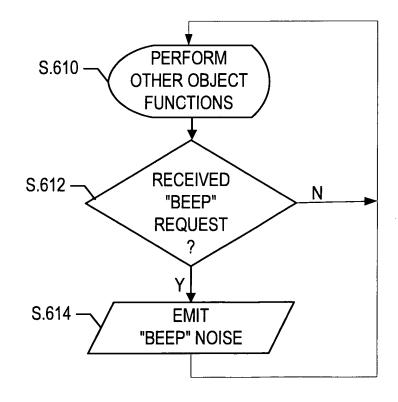


FIG. 19B

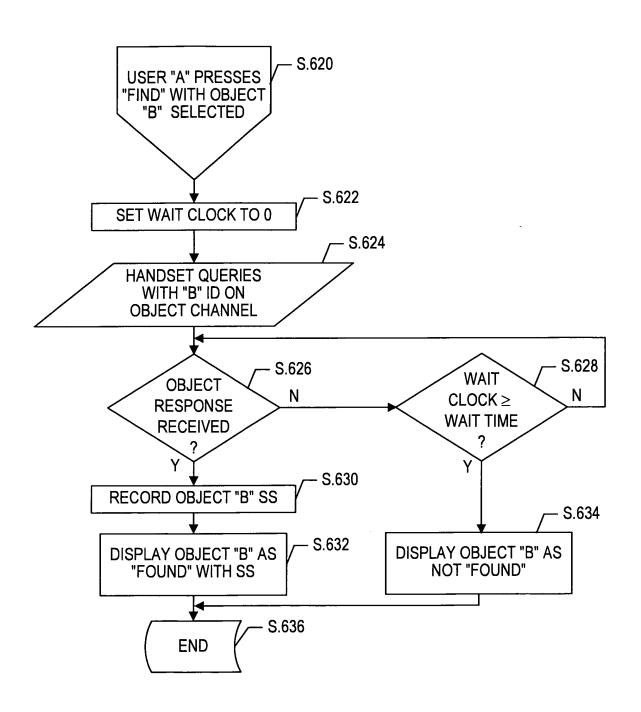


FIG. 20A

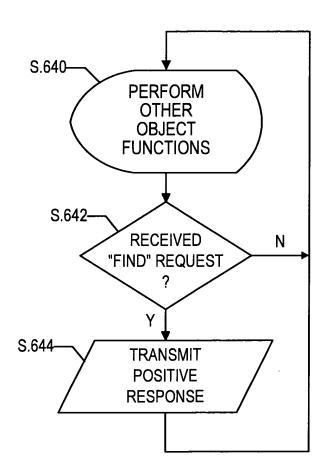
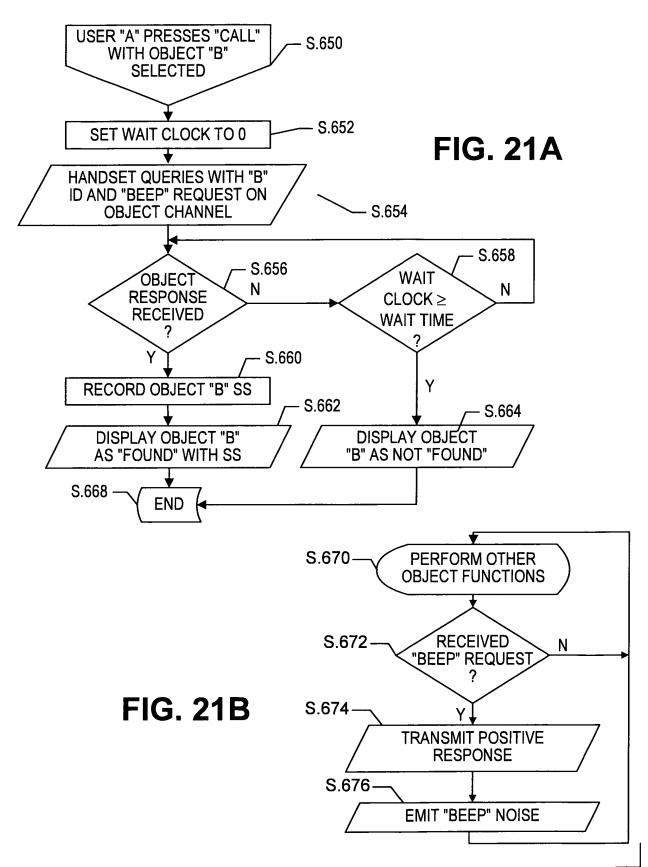
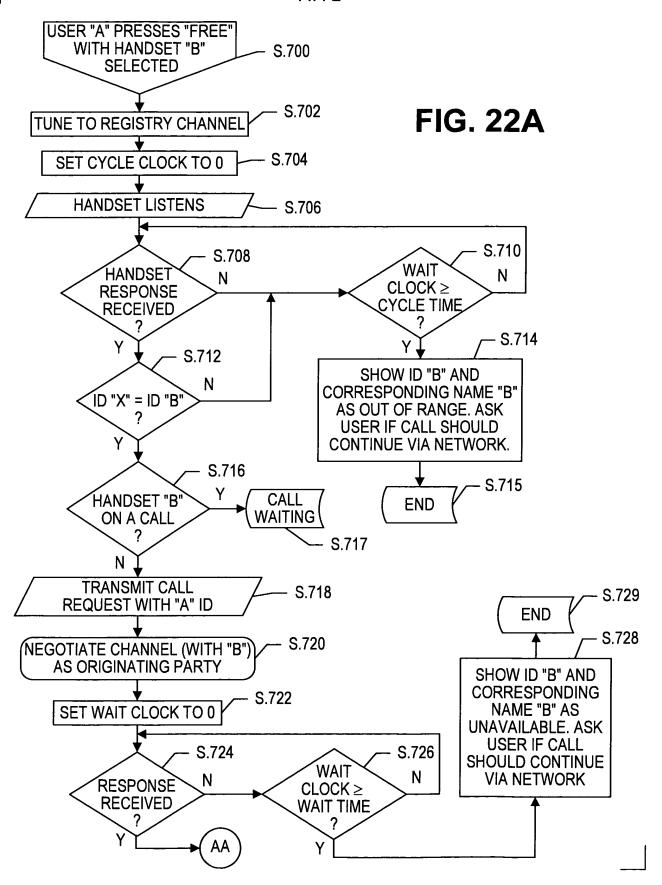


FIG. 20B





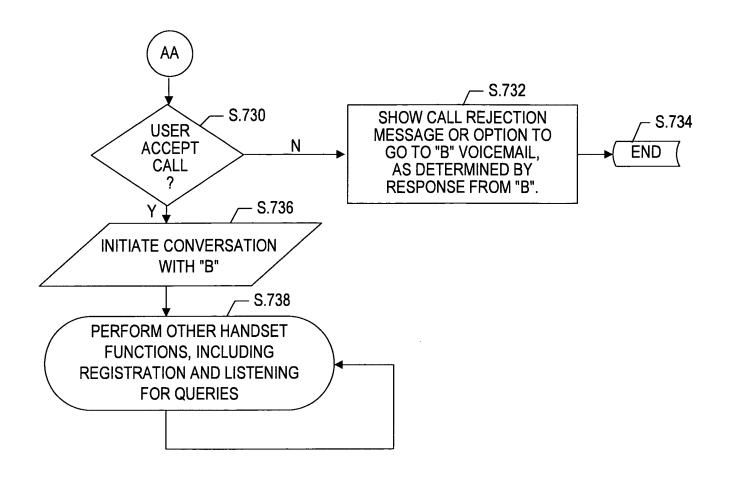
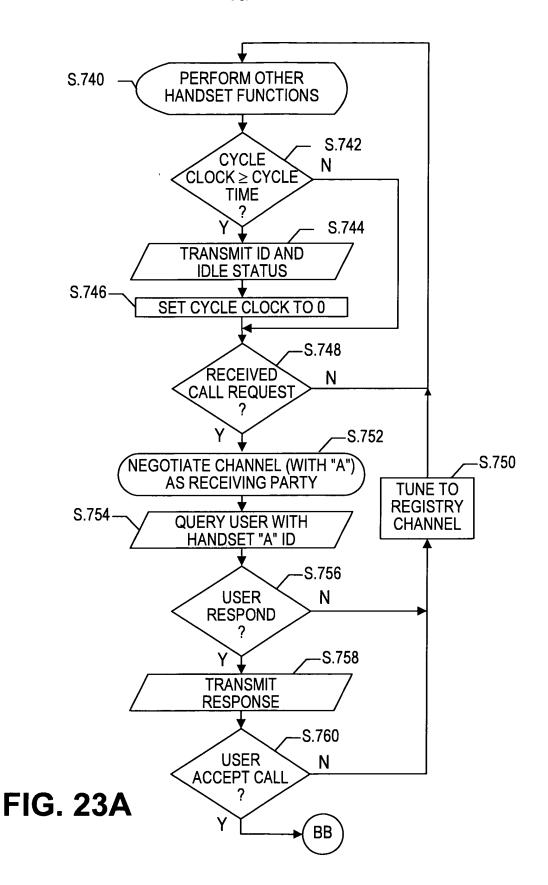


FIG. 22B



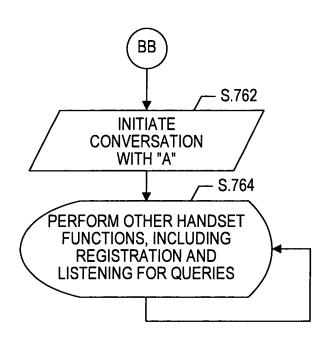


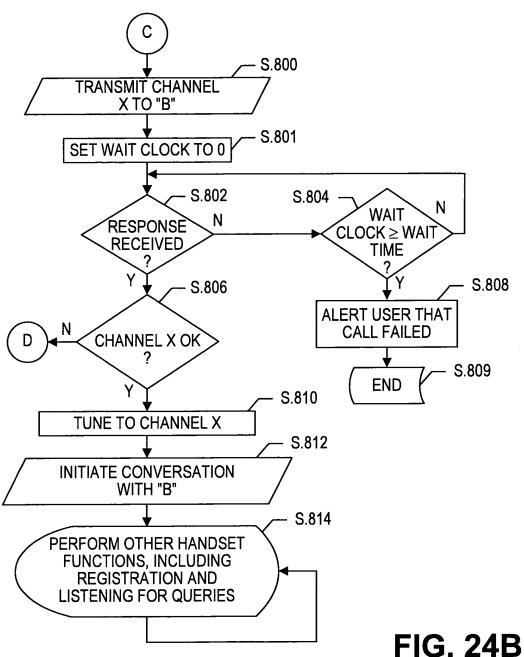
FIG. 23B

45/72 HANDSET "A" NEEDS TO NEGOTIATE A CHANNEL AS THE ORIGINATOR - S.770 WITH HANDSET "B" **S.772** TUNE TO REGISTRY CHANNEL S.774 **FIG. 24A** TRANSMIT HOLD **REQUEST TO "B"** S.776 SET WAIT CLOCK TO 0 S.780 S.778 WAIT **HOLD** N Ν CLOCK ≥ CONFIRMATION WAIT TIME RECEIVED D S.782 SET CHANNEL_COUNT = 0 - S.784 S.786 Υ TRANSMIT CALL FAIL CHANNEL COUNT NOTIFICATION TO "B" ≥ MAX_TRIEŞ S.790 N **ALERT USER THAT** S.788 **CALL FAILED** TUNE TO RANDOM CHANNEL X - S.792 LISTEN FOR S.794 **END ACTIVITY** - S.796 N

S.798

CHANNEL CLEAR

TUNE TO REGISTRY CHANNEL



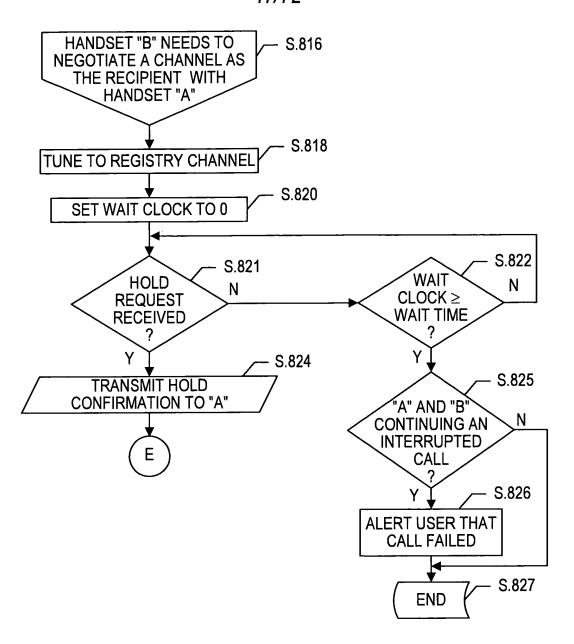
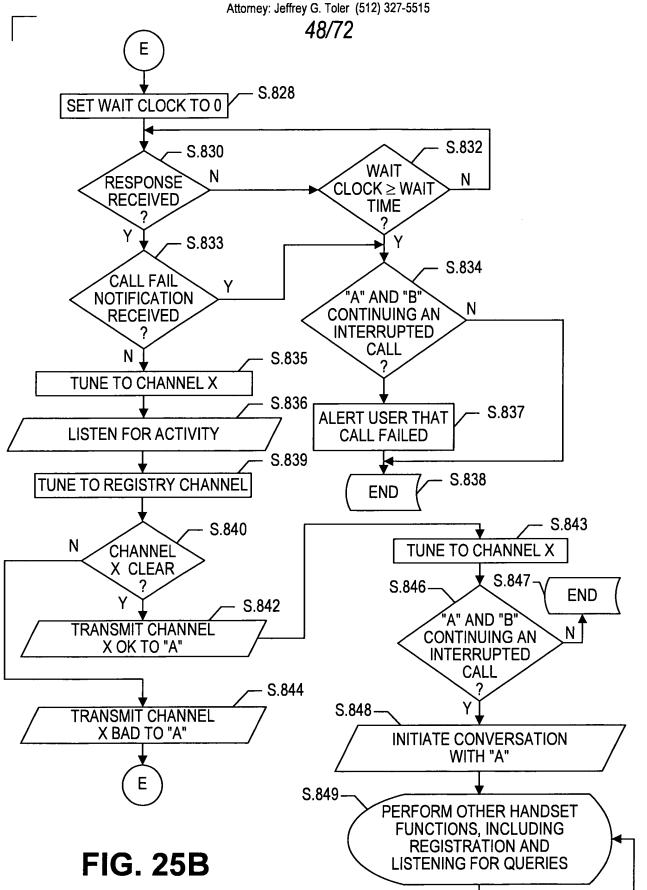


FIG. 25A



Inventor: Daniel Wayne Mauney Attomey: Jeffrey G. Toler (512) 327-5515 49/72 S.850 USER "A" PRESSES "FREE" WITH **FIG. 26A** |HANDSET "B" SELECTED. "B" ON A CALL WITH HANDSET "C" S.851 TUNE TO REGISTRY CHANNEL S.852 SET CYCLE CLOCK TO 0 S.853 HANDSET LISTENS S.855 S.854 CYCLE **HANDSET** N N $CLOCK \ge CYCLE$ RESPONSE **RECEIVED** TIME - S.857 S.856 S.865-SHOW ID "B" AND CORRESPONDING NAME "B" ÎD "X" = ID "B" **END** AS OUT OF RANGE. ASK S.859 USER IF CALL SHOULD **OTHER** CONTINUE VIA NETWORK S.858-ROUTINE! Ν **HANDSET** S.863 S.864 "B"ON A CAL WAIT N RESPONSE CLOCK ≥ S.860 RECEIVED **WAIT TIME** TUNE TO CHANNEL - S.866 OF HANDSET "B" S.861 SHOW ID "B" AND CORRESPONDING TRANSMIT CALL S.867-NAME "B" AS WAITING REQUEST WITH "A" ID **END** UNAVAILABLE. ASK USER IF CALL S.862 SHOULD CONTINUE SET WAIT CLOCK TO 0 VIA NETWORK

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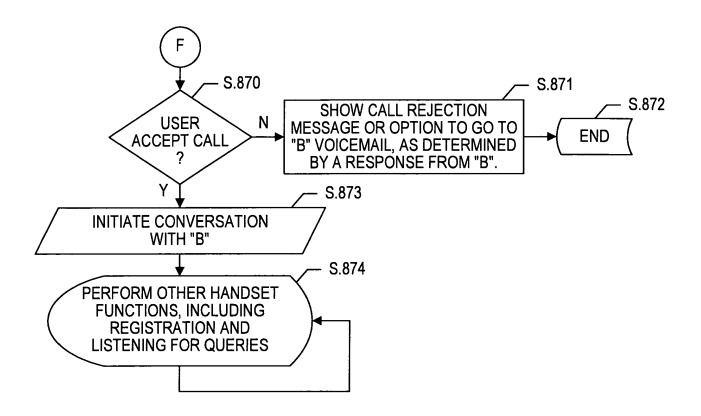
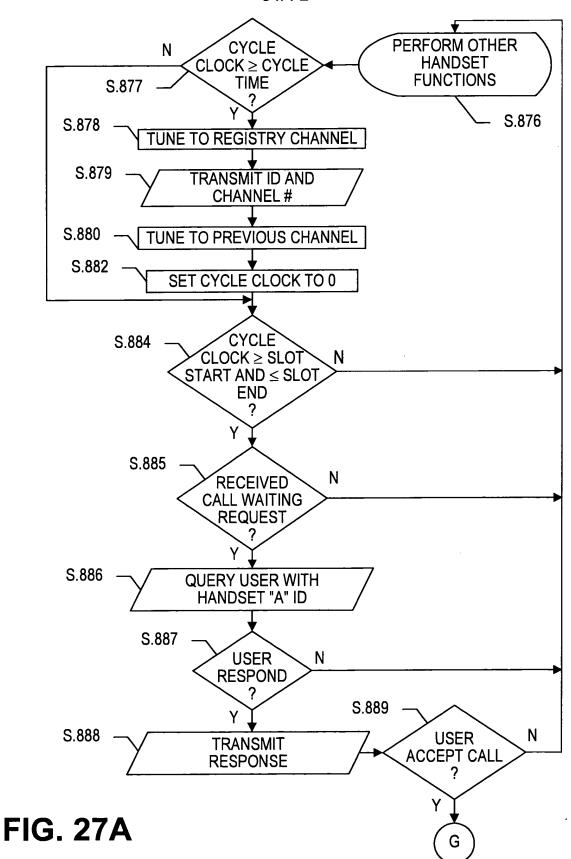


FIG. 26B



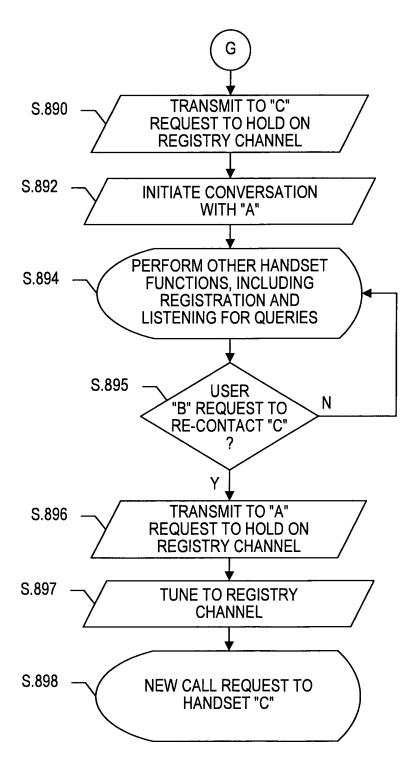
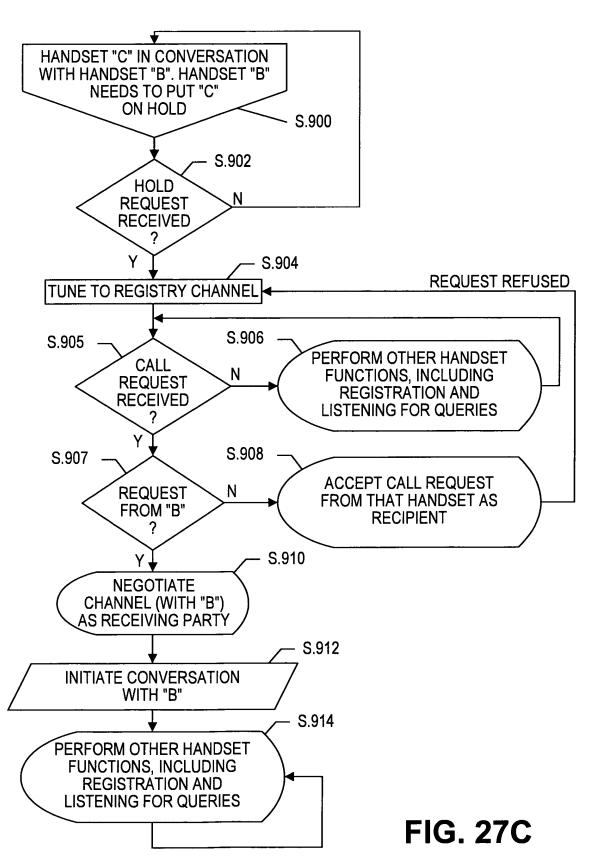
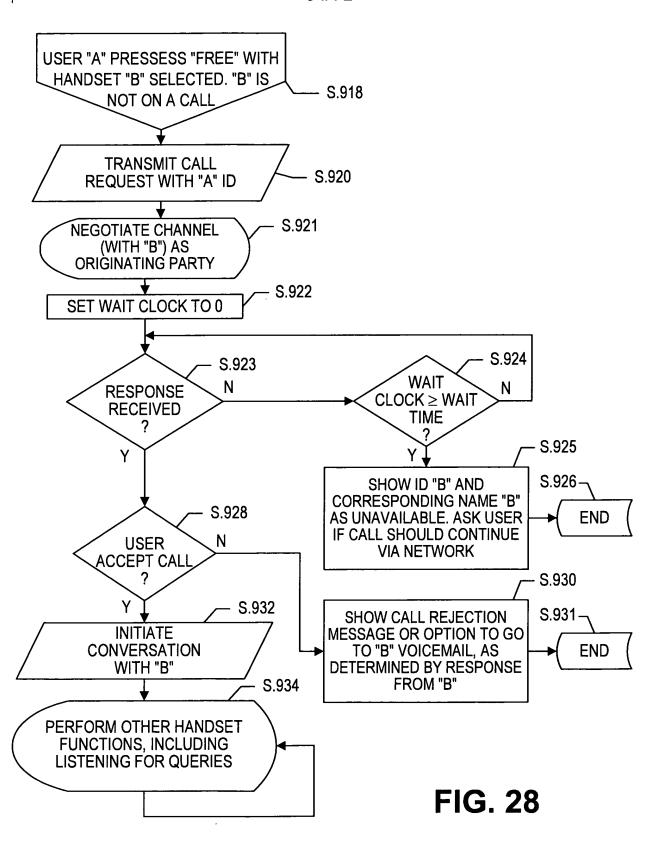
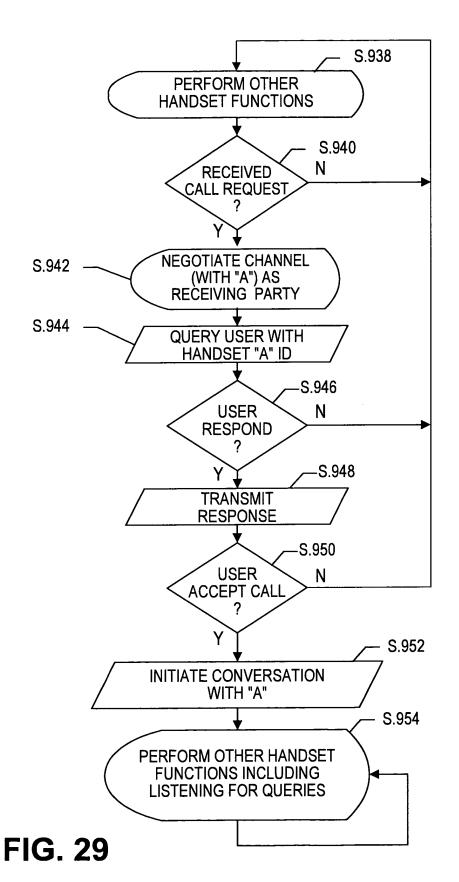
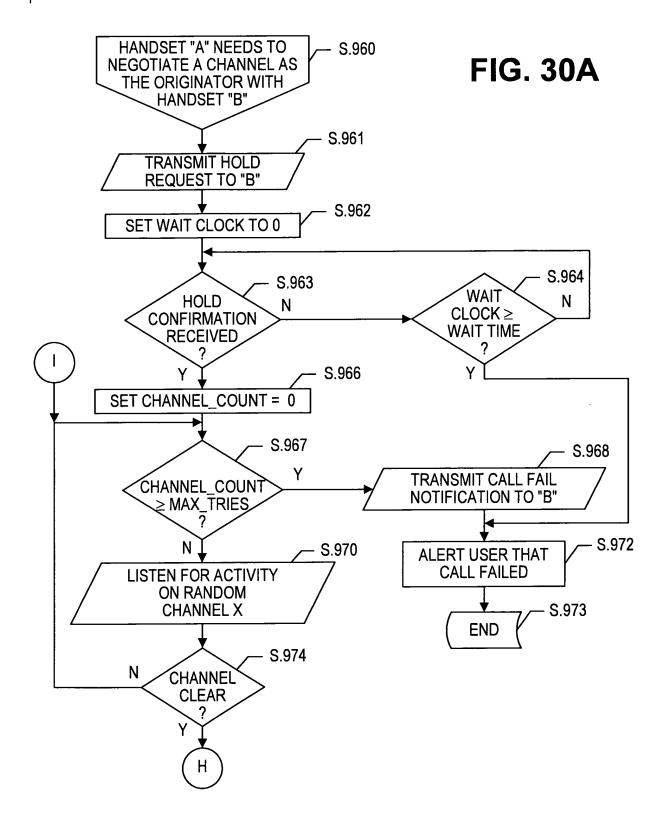


FIG. 27B









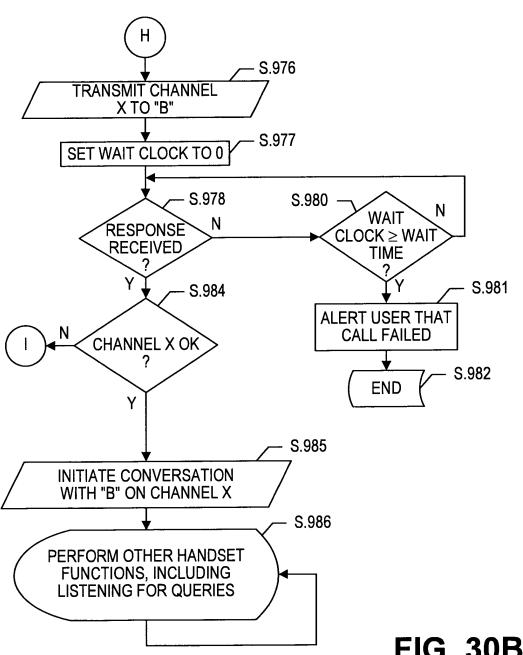


FIG. 30B

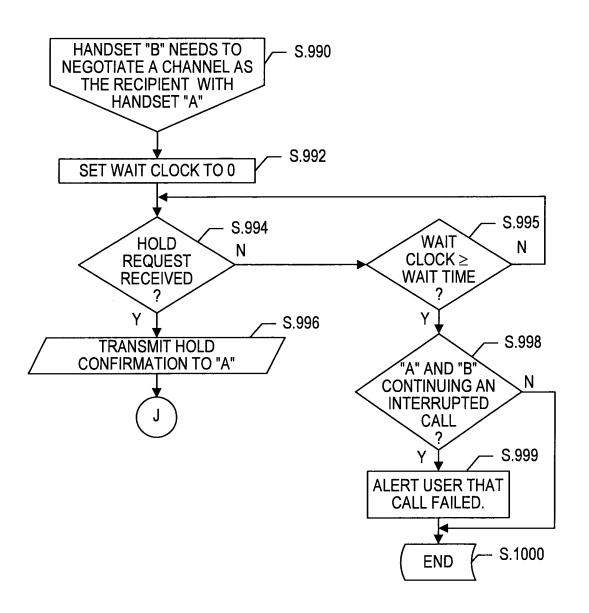
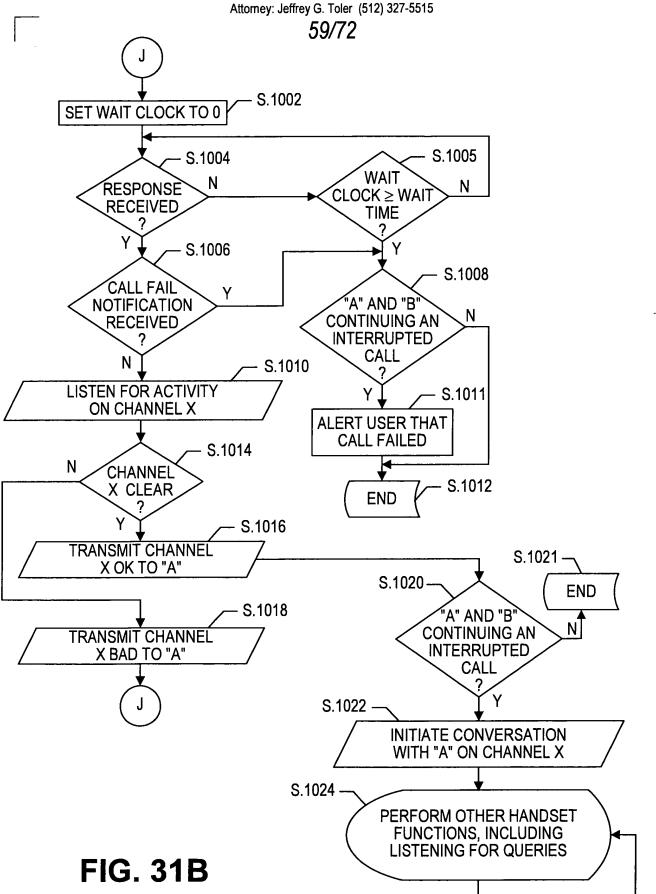
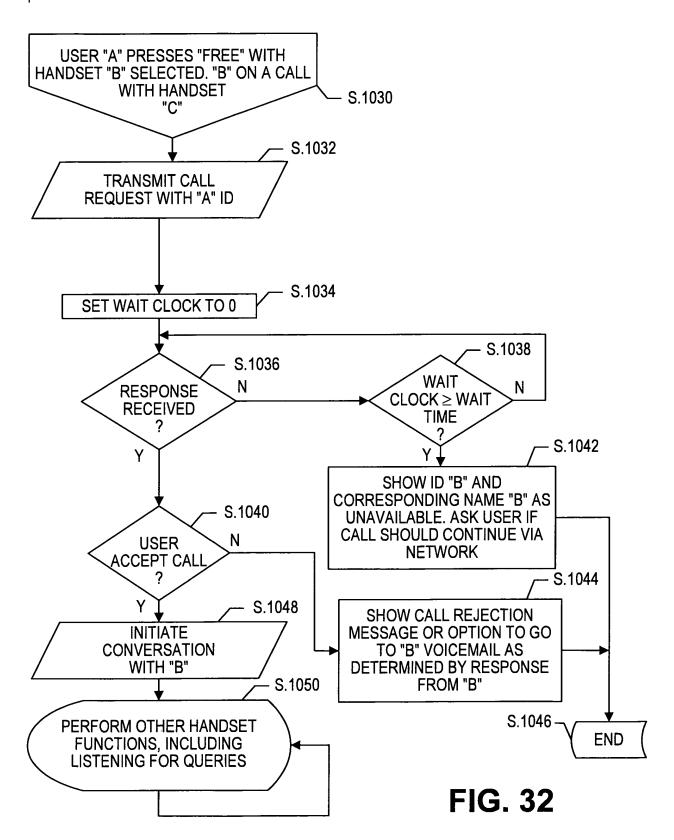


FIG.31A

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Inventor: Daniel Wayne Mauney





S.1074

NEW CALL REQUEST TO HANDSET "C"

Docket No.: 1033-T00142-C4 Inventor: Daniel Wayne Mauney Attorney: Jeffrey G. Toler (512) 327-5515

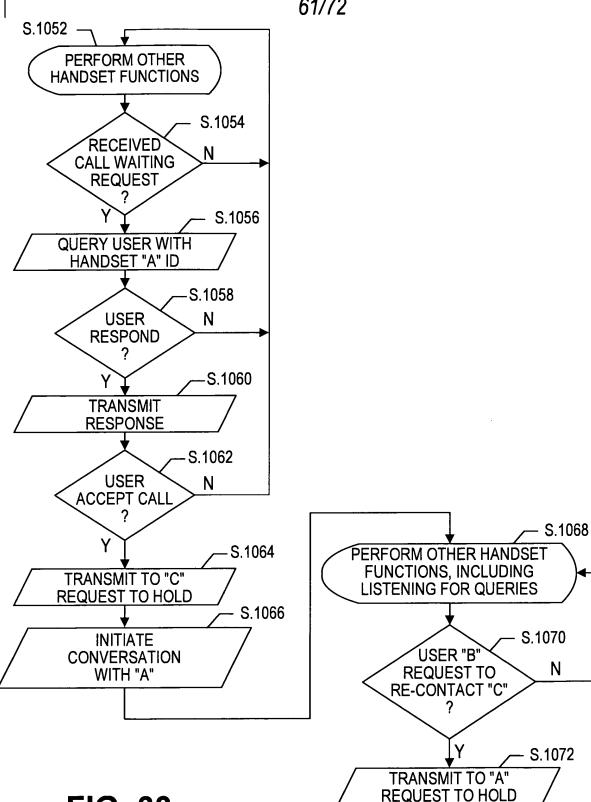
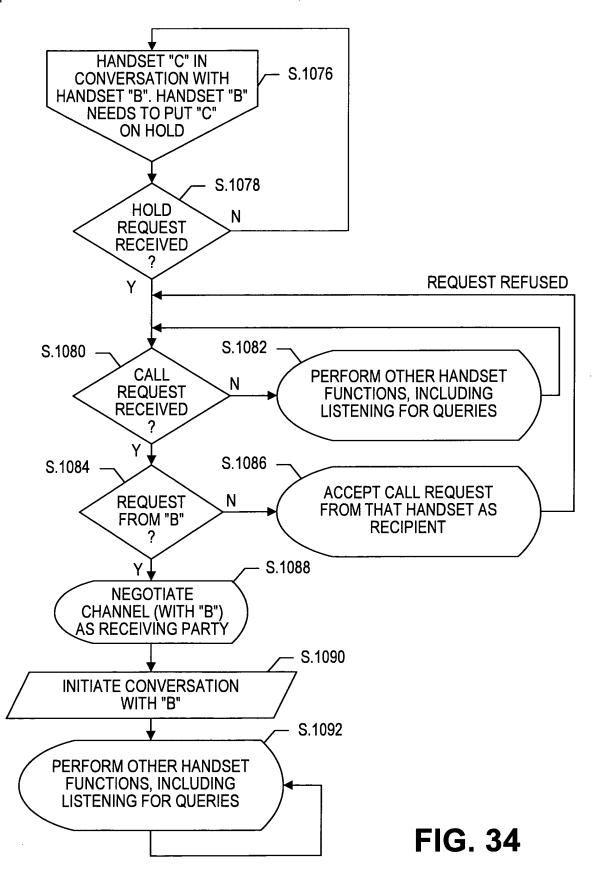


FIG. 33



63/72

2000 2005 **ANTENNA** 2010 **TRANSDUCER** 2015 **RECEIVER** 2040 **CONTROL SYSTEM** 2020 2030 **MEMORY** 1/0

FIG. 35

Docket No.: 1033-T00142-C4 Inventor: Daniel Wayne Mauney

Attorney: Jeffrey G. Toler (512) 327-5515

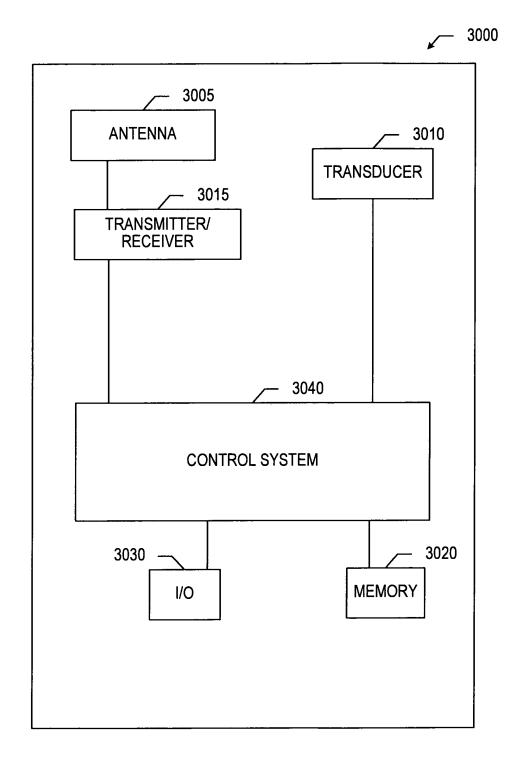
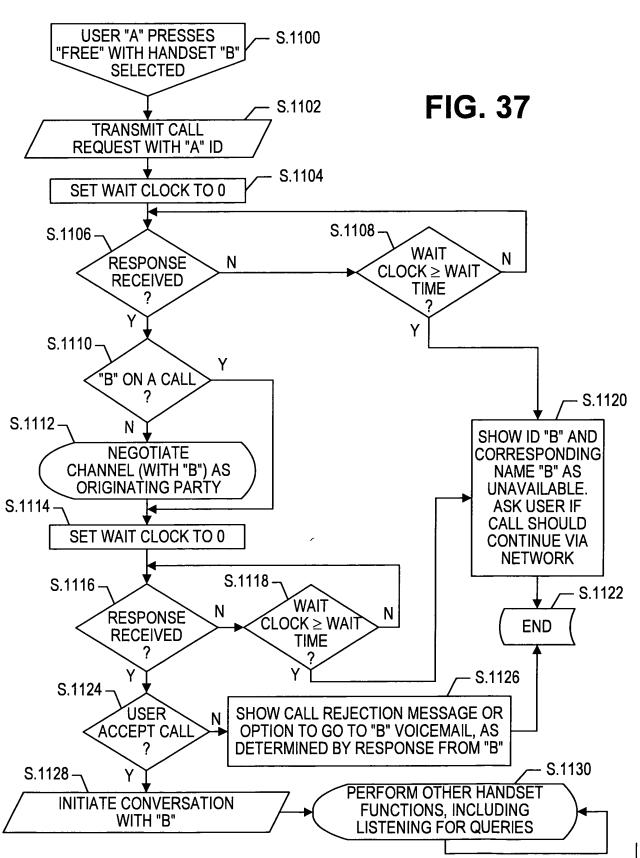
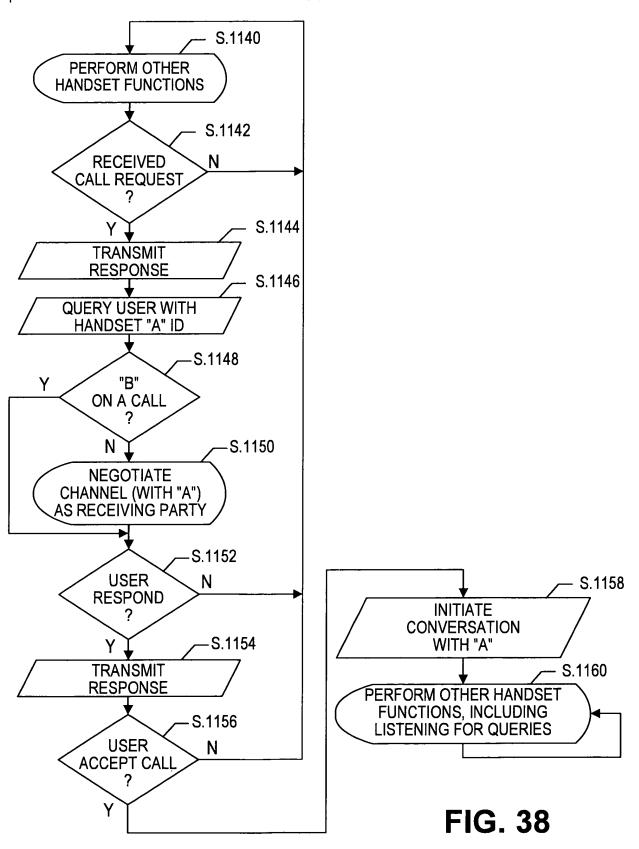
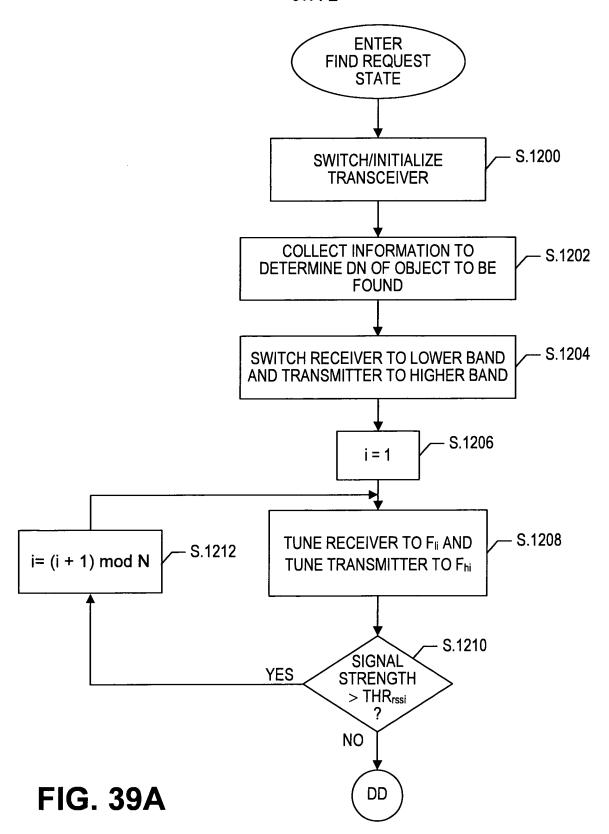


FIG. 36







Docket No.: 1033-T00142-C4 Inventor: Daniel Wayne Mauney Attorney: Jeffrey G. Toler (512) 327-5515 68/72 DD S.1214 SEND SYNC SIGNAL SEND FIND MESSAGE CONTAINING S.1216 REQUESTER'S DN, REQUESTER'S NAME, AND DN OF OBJECT BEING QUERIED YES S.1218 - S.1220 S.1224 FIND NO $\begin{array}{c} m \leq L \\ ? \end{array}$ **RESPONSE** m = m + 1RECEIVED ? NO YES **UPDATE FOUND LIST** S.1228 STATUS FOR QUERIED S.1226 **PROVIDE FIND OBJECT FAILURE INDICATOR** MEASURE AND UPDATE S.1230 SIGNAL STRENGTH OF QUERIED OBJECT **ENTER IDLE STATE**

FIG. 39B

69/72 **ENTER** MEMORIZE REQUEST STATE S.1300 SWITCH/INITIALIZE **TRANSCEIVER** - S.1302 SWITCH RECEIVER TO LOWER BAND AND TRANSMITTER TO HIGHER BAND S.1304 i = 1S.1306 TUNE RECEIVER TO Fi AND S.1310 $i = (i + 1) \mod N$ TUNE TRANSMITTER TO Fhi S.1308 SIGNAL YES **STRENGTH** $> THR_{rssi}$ NO

FF

FIG. 40A

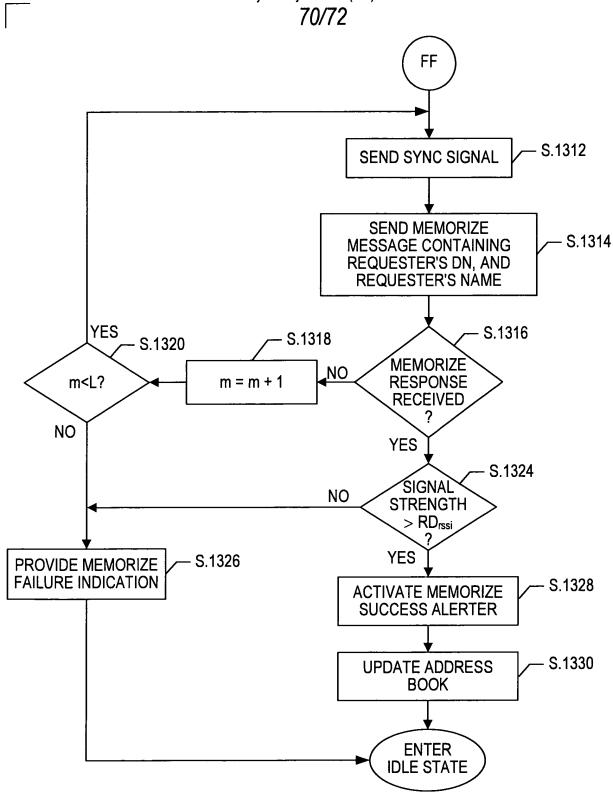


FIG. 40B

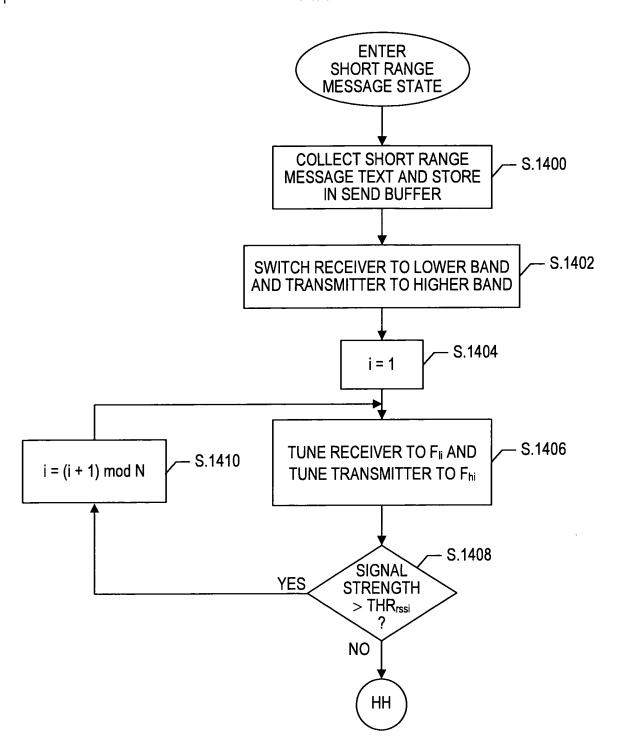


FIG. 41A

Docket No.: 1033-T00142-C4 Inventor: Daniel Wayne Mauney

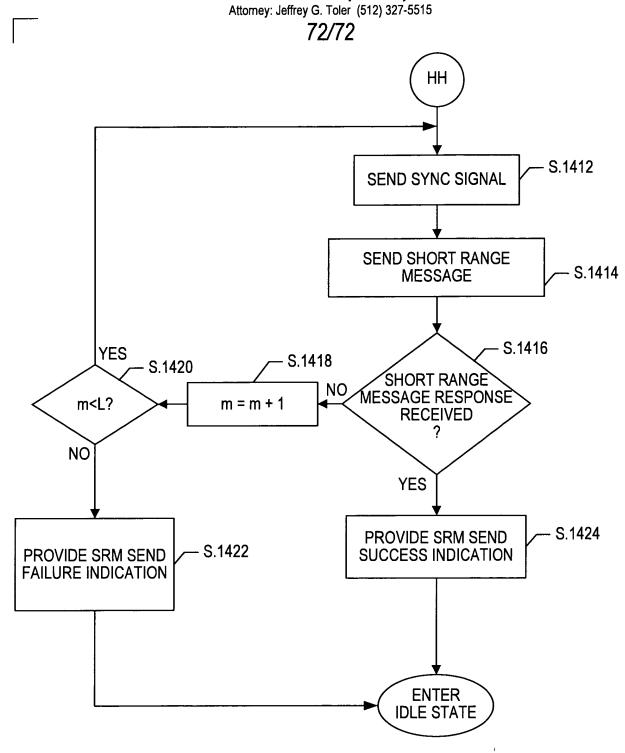


FIG. 41B